

of 62 and 4 volumes of N₂- While this is not absolutely accurate, it is sufficiently close for the purpose and saves considerable time in computing. Table No. 6 summarizes the instantaneous calorific intensities as read from the curves for different conditions. Tables 6 and 8, Appendix X, give the data used in the computations of Table No. 5, both being abstracted from *Les Sources de l'Energie Calorifique* by Damour, Carnot and Rengade.

TABLE 1

TEMPERATURE ON CENTER LINE OF CHECKER.
WALL LAID UP IN" STRAIGHT
PASSES IN" PER CENT VALUE OF THE
SURFACE TEMPERATURE OF THE
BRICK. ALLOWING FOR THE CORNER
EFFECT

Heating Period in Minutes, Wall Thickness		15	30	45	CO
Indies	Millimeters	Temperature on Center Line in Per Cent of Surface Temperature			
2.0	50	99.0	99.9	99.99	
2.5	63	94.0	99.5	99.9	
3.0	75	91.0	99.0	99.5	
3.5	90	80.0	97.0	98.5	99.8
4.0	100	70.0	93.0	98.0	99.75
4.5	113	59.5	87.0	96.0	99.0

TABLE 2

TIME IN* MINUTES REQUIRED FOR THE CENTER
LINE OF A WALL TO
GIVEN PERCENTAGE VALUES OF THE SURFACE
TEMPERATURE, ALLOWING
FOR THE CORNER EFFECT

Center Line in Per Cent of Temperature Wall Thickness		95	90	80	70	(>)
Inches	Millimeters	Time In Minutes				
2.0	50	32	26	18	14	12
2.5	63	54	42	30	24	20
3.0	75	76	56	44	32	27
3.5	90	106	82	62	50	38
4.0	100	130	104	76	62	48
4.5	113	170	134	98	78	60